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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/782,808	02/23/2004	Rajiv Vasant Joshi	YOR919940172US7	5457
30678 7.	590 10/01/2004		EXAM	INER
CONNOLLY BOVE LODGE & HUTZ LLP SUITE 800			PICARDAT, KEVIN M	
1990 M STREET NW			ART UNIT	PAPER NUMBER
WASHINGTON, DC 20036-3425			2822	

DATE MAILED: 10/01/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/782,808	JOSHI, RAJIV VASANT			
Office Action Summary	Examiner	Art Unit			
•	Kevin M. Picardat	2822			
The MAILING DATE of this communicatio					
Period for Reply	,,	·			
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 Of after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ION. FR 1.136(a). In no event, however, may a re on. , a reply within the statutory minimum of thirt period will apply and will expire SIX (6) MON' statute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on	09 June 2004.				
2a) ☐ This action is FINAL . 2b) ☑	This action is non-final.				
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closed in accordance with the practice un	nder <i>Ex parte Quayle</i> , 1935 C.D	. 11, 453 O.G. 213.			
Disposition of Claims					
4) ☐ Claim(s) 1-21 is/are pending in the applic 4a) Of the above claim(s) is/are wit 5) ☐ Claim(s) 3-11 and 13-21 is/are allowed. 6) ☐ Claim(s) 1,2 and 12 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and continuous continu	thdrawn from consideration.				
Application Papers					
9) ☐ The specification is objected to by the Exa 10) ☑ The drawing(s) filed on 23 February 2004 Applicant may not request that any objection to Replacement drawing sheet(s) including the control of	is/are: a)⊠ accepted or b)⊡ on the drawing(s) be held in abeyan correction is required if the drawing(ce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for fo a) All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International B * See the attached detailed Office action for	ments have been received. ments have been received in A e priority documents have been ureau (PCT Rule 17.2(a)).	pplication No received in this National Stage			
Attachment(s)	 □	(070.440)			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-94 Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date 6-9-04. 	8) Paper No(s	ummary (PTO-413))/Mail Date Iformal Patent Application (PTO-152) 			

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1,2 and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Merchant et al. US 5,523,259.

Merchant et al. discloses a process of forming interconnects including depositing at least one layer (16.1) of metal of a material selected from the group consisting of Cu, Ag, Al, CuAg, CuAl, AgAl, and CuAgAl into a via (19), and depositing a second layer (16.2) of Cu having an average grain size of not smaller than 0.3 μm on top of the one metal layer into the via (see figs. 4-5 and related text). Also disclosed is providing a layer (20) of a low k dielectric material prior to depositing the one layer.

Allowable Subject Matter

Claims 3-11 and 13-21 are allowed over the prior art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin M. Picardat whose telephone number is 571-272-1841. The examiner can normally be reached on Monday-Thursday 7:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amir Zarabian can be reached on 571-272-1852. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2822

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kevin M. Picardat Primary Examiner Art Unit 2822

kmp